

CLAIMS

1. Machine for the cutting of double-bodied bottles (3) attached to each other at the neck, which comprises means (2) for advancing the bottles (3) and a bottle-neck cutting device (1), **characterised** in that said cutting device (1) comprises means for rotating around their axis of symmetry a pair of parallel oriented rotary plates (4), a pair of arc shaped blades (7), which are oriented in parallel to the plane of said rotary plates (4) and distanced in such a way that the double-bodied bottles (3) can fit between the arc shaped blades (7) and the rotary plates (4), a plurality of drive pulleys (9), which are parallel arranged to the axis of the rotating plates, and which in operation contact the neck of the bottles (3), whereby said rotary plates (4) comprise a plurality of perimetral housings (5) which are arranged in such a way that they can move the bottles (3), following a circular route, towards the arc shaped blades (7) so that a cut is made around the entire outline of the neck of the bottles (3), and whereby said pair of pulleys (9) are arranged in such a way to ensure that the bottles (3) rotate about their own axes, and that the bottles are pressed against the arc shaped blades (7).

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2. Machine, according to Claim 1, characterised in that the profile of the drive pulleys (9) and of the blade carriers (8) is defined by being complementary to that of the necks of the bottles (3).

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3. Machine, according to Claim 1, that comprises a pressurised air conveyor (2) for moving the bottles (3) towards the housings (5) of the plates (4) by means of pressurized air that circulates inside the conveyor, 5 characterized in that this conveyor (2) comprises a guide (13) provided with a first pair of rails (14) situated in the lower part of the guide and a second pair of rails (15) situated in the upper part of the guide, so that grooves present in the neck of the bottles (3) are positioned 10 between said lower (14) and upper rails (15).

4. Machine, according to Claim 3, characterised in that the housings (5) are separated by spoon-shaped teeth (6) in order to facilitate positioning of the bottles (3) 15 inside said housings (5).

5. Machine, according to Claim 1, characterised in that it comprises at the cutting device (1) outlet section three ramps (12), two of which gather the two cut bottles 20 (10) while the third gathers the intermediate dome (11) resulting from the cut.